

4.5.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 30kHz VBW, set sweep time=span/3kHz. The power spectral density was measured and recorded.

The sweep time is allowed to be longer than span/3KHz for a full response of the mixer in the spectrum analyzer.

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITIONS

Same as 4.3.6



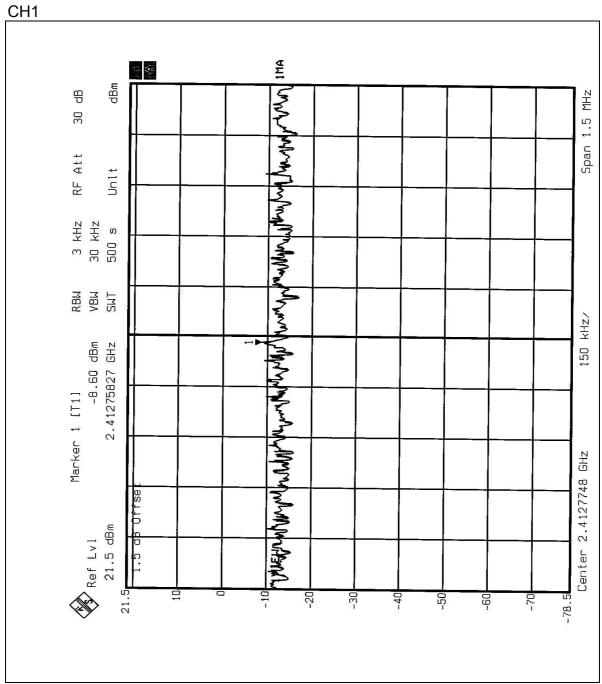
4.5.7 TEST RESULTS

EUT	High-Speed 2.4GHz WLAN Mini PCI Card	MODEL	WMP-G01
		MODE	ССК
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	21deg. C, 67%RH, 991hPa

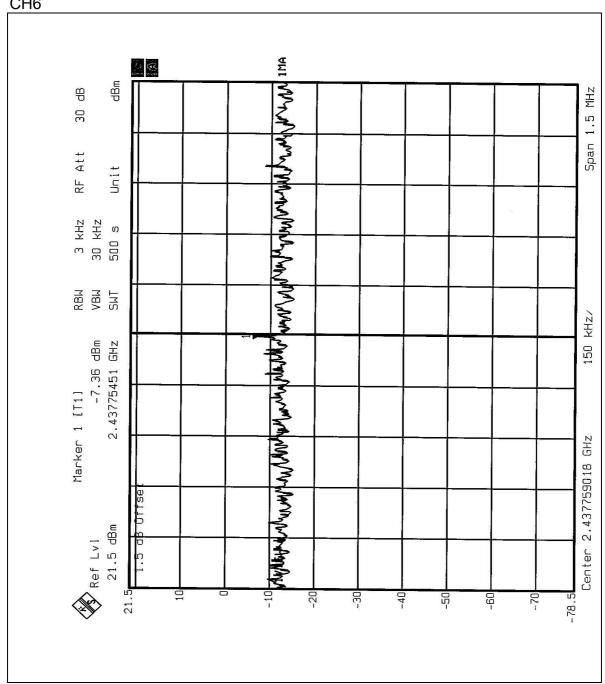
TESTED BY: Ansen Lei

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-8.60	8	PASS
6	2437	-7.36	8	PASS
11	2462	-6.25	8	PASS

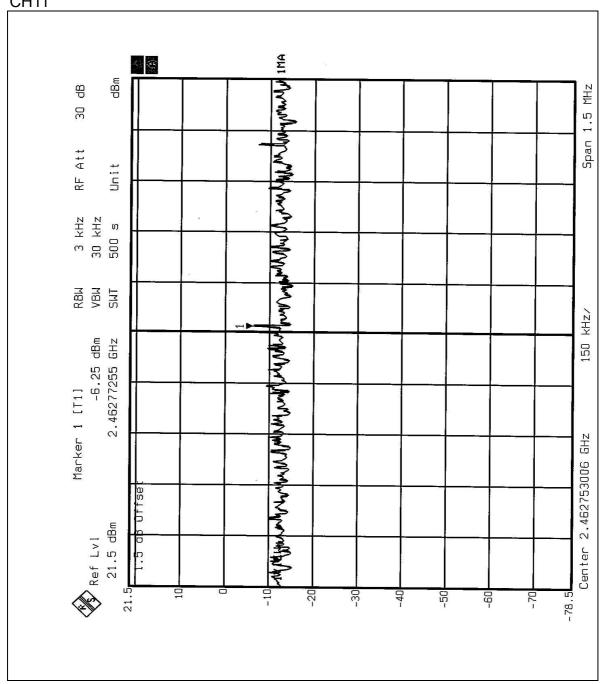














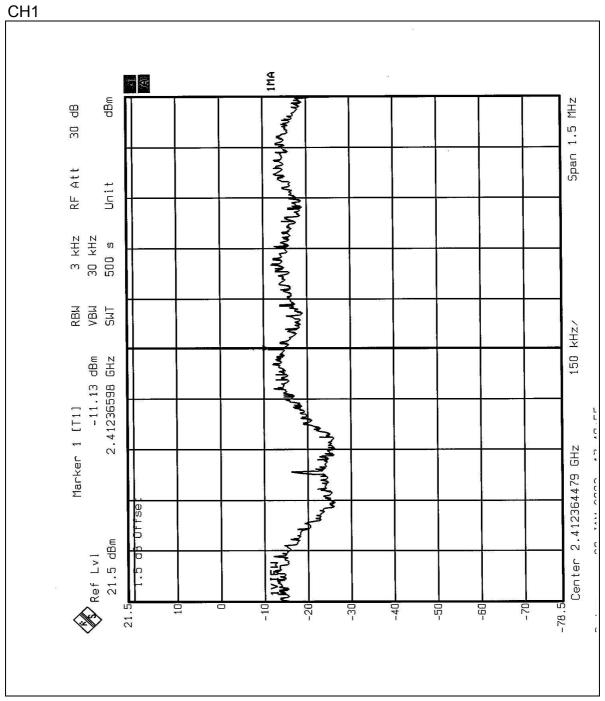
EUT	High-Speed 2.4GHz WLAN Mini PCI Card	MODEL	WMP-G01
		MODE	OFDM
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	21deg. C, 67%RH, 991hPa

TESTED BY: Ansen Lei

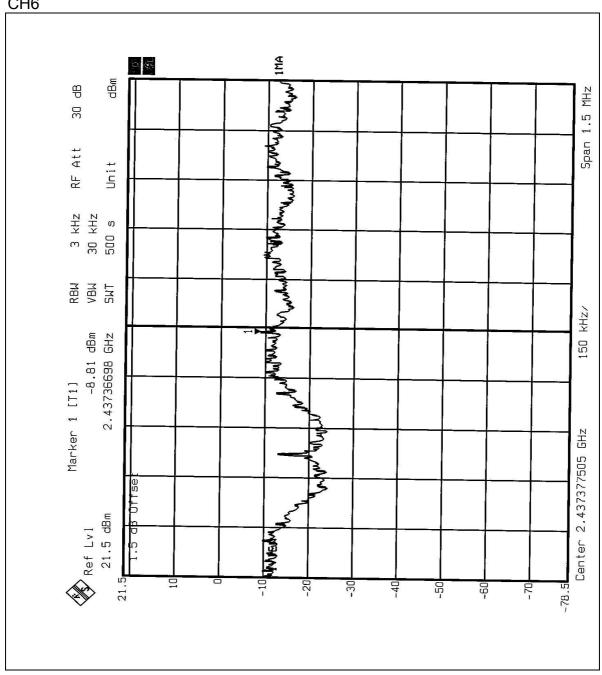
CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-11.13	8	PASS
6	2437	-8.81	8	PASS
6 (Turbo Mode)	2437	-13.92	8	PASS
11	2462	-13.04	8	PASS



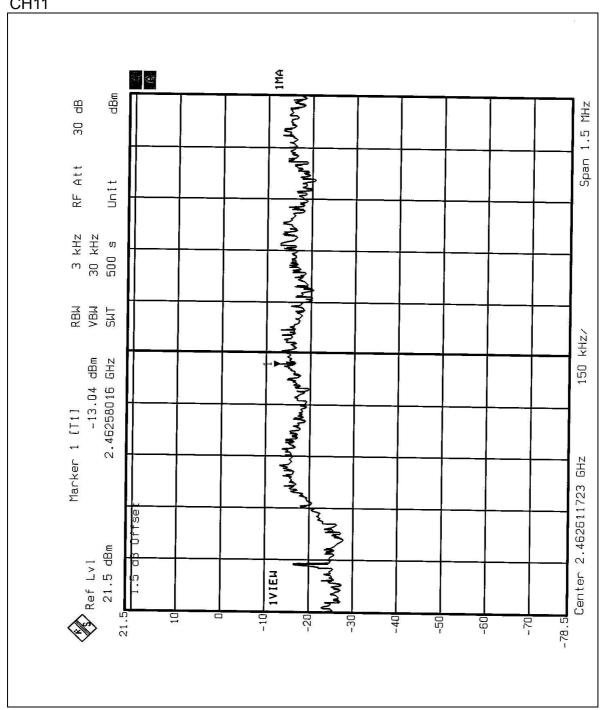






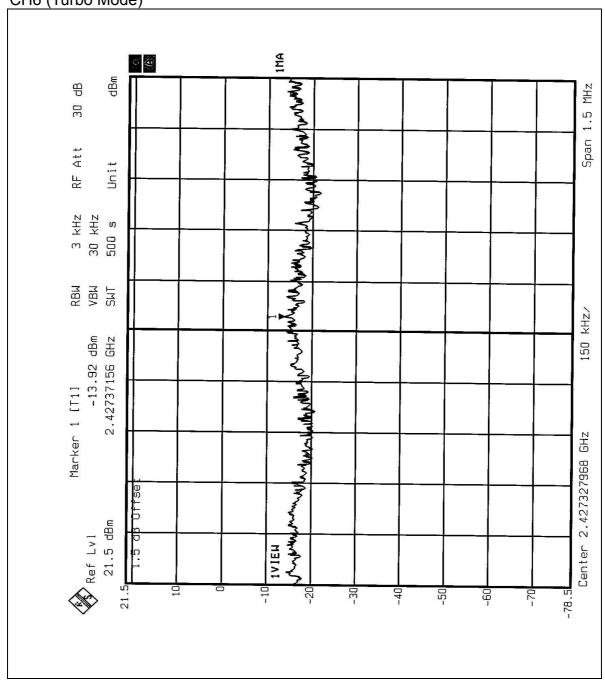








CH6 (Turbo Mode)





4.6 BAND EDGES MEASUREMENT

4.6.1 LIMITS OF BAND EDGES MEASUREMENT

Below –20dB of the highest emission level of operating band (in 100KHz Resolution Bandwidth).

4.6.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	July 24, 2003

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.6.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 1MHz and 300Hz with suitable frequency span including 100kHz bandwidth from band edge. The band edges was measured and recorded.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation



4.6.5 EUT OPERATING CONDITION

Same as Item 4.3.6

4.6.6 TEST RESULTS

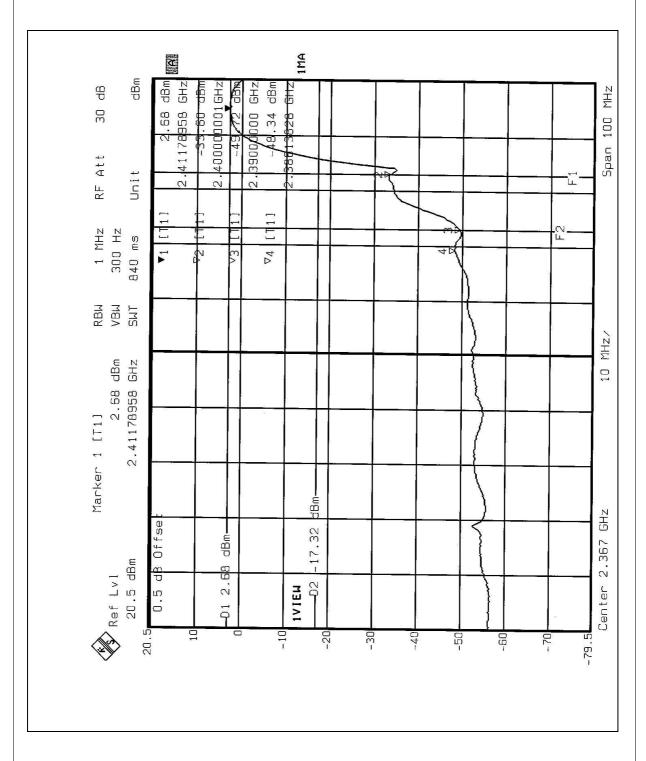
The spectrum plots are attached on the following 2 pages. D2 line indicates the highest level, D1 line indicates the 20dB offset below D2. It shows compliance with the requirement in part 15.247(C).

NOTE 1: The band edge emission plot on the following 1-2 pages shows 51.02dB / 49.74dB delta between carrier maximum power and local maximum emission in restrict band (2.3861GHz / 2.4913GHz). The emission of carrier strength list in the test result of channel 11 of CCK technique at the item 4.2.8 is 102.8dBuV/m, so the maximum field strength in restrict band is 102.8-49.74=53.06dBuV/m which is under 54dBuV/m limit.

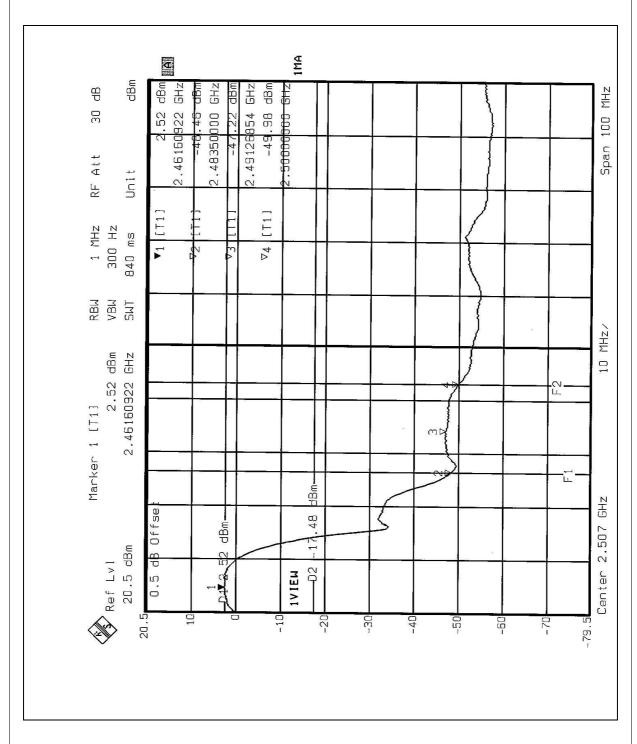
NOTE 2: The band edge emission plot on the following 3-4 pages shows 44.42dB / 42.8dB delta between carrier maximum power and local maximum emission in restrict band (2.3898GHz / 2.4835GHz). The emission of carrier strength list in the test result of channel 11 of OFDM technique at the item 4.2.8 is 96.5dBuV/m, so the maximum field strength in restrict band is 96.5-42.8=53.7dBuV/m which is under 54dBuV/m limit.

NOTE 3: The band edge emission plot on the following 5-6 pages shows 41.43dB / 41.96dB delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz / 2.4835GHz). The emission of carrier strength list in the test result of channel 6 of OFDM technique in turbo mode at the item 4.2.8 is 95.1dBuV/m, so the maximum field strength in restrict band is 95.1-41.43=53.67dBuV/m which is under 54dBuV/m limit.

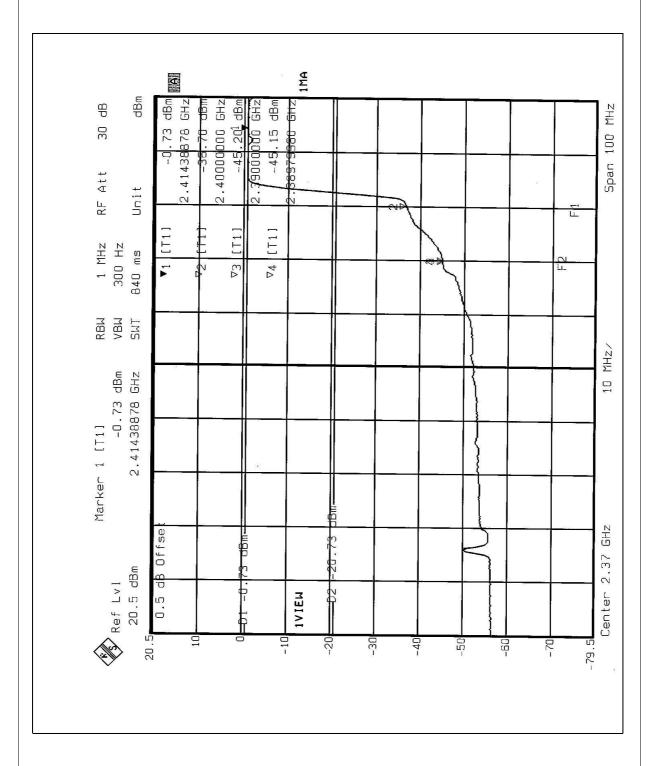




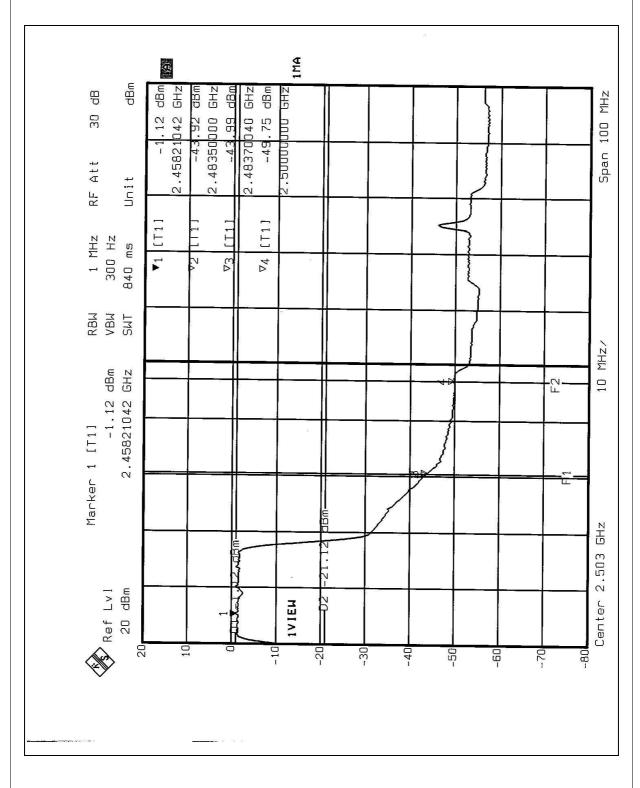




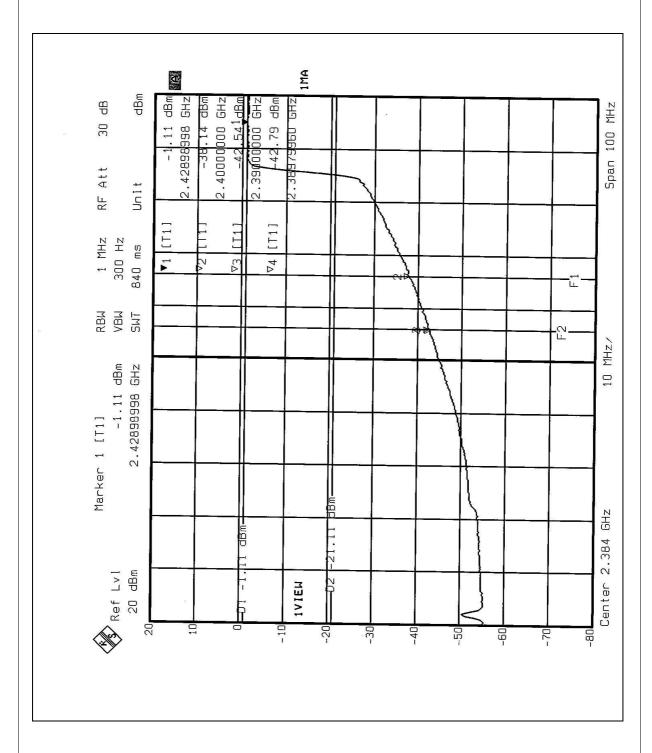




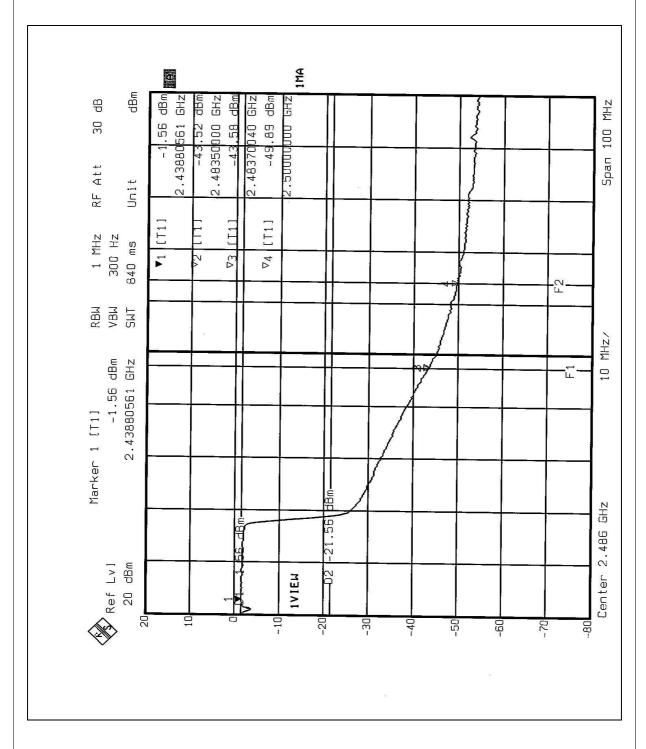














4.7 ANTENNA REQUIREMENT

4.7.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.7.2 ANTENNA CONNECTED CONSTRUCTION

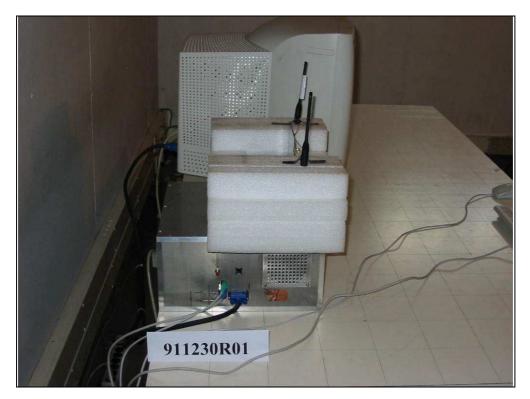
The antenna types used in this product are Inverted F and Dipole with internal connector type MMCX or external connector Reversed SMA, please also refer to section 3.1. The maximum Gain of this antenna is 5dBi.



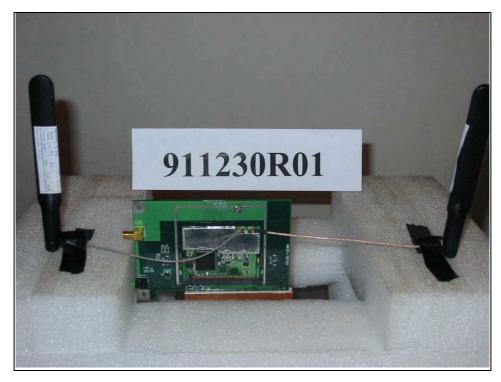
5 PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST











RADIATED EMISSION TEST











6 INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025, Guide 25 or EN 45001:

USA FCC, NVLAP TUV Rheinland

Japan VCCI New Zealand MoC Norway NEMKO

R.O.C. BSMI, DGT, CNLA

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site: www.adt.com.tw/index.5/phtml.

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The address and road map of all our labs can be found in our web site also.